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Available Models

The ***C-more***® Operator Interface is the next generation of touch panel brought to you by AutomationDirect. It has been designed to display and interchange graphical data from a PLC by merely viewing or touching the screen.

The ***C-more*** Touch Panel is available in a variety of models to suit your application. Refer to the following tables for a list of part numbers, descriptions and options available.

Part Number	Description	Project Memory	SD Card Option	USB Device	Ethernet	HDMI Video Out
EA9-T6CL-R	***C-more*** EA9 series touch screen interface panel, 6-inch color TFT (5.7 inch viewable screen), base model, 64k colors, 320 x 240 pixel QVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (1) serial port, USB 2.0 Type A and B ports, supports SD memory card, no Ethernet support. Compatible with EA9-PGMSW programming software version 5.0 or later.	26 MB	1 slot	Yes	No	No
EA9-T6CL	***C-more*** EA9 series touch screen interface panel, 6-inch color TFT (5.7 inch viewable screen), 64k colors, 320 x 240 pixel QVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports SD memory card. Compatible with EA9-PGMSW programming software version 5.0 or later.	26 MB	1 slot	Yes	Yes	No
EA9-T8CL	***C-more*** EA9 series touch screen interface panel, 8-inch color TFT (8.4 inch viewable screen), 64k colors, 800 x 600 pixel SVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports SD memory card. Compatible with EA9-PGMSW programming software version 5.0 or later.	26 MB	1 slot	Yes	Yes	No
EA9-T10CL	***C-more*** EA9 series touch screen interface panel, 10-inch color TFT (10.4 inch viewable screen), 64k colors, 800 x 600 pixel SVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports SD memory card. Compatible with EA9-PGMSW programming software version 5.0 or later.	26 MB	1 slot	Yes	Yes	No
EA9-T12CL	***C-more*** EA9 series touch screen interface panel, 12-inch color TFT (12.1 inch viewable screen), 64k colors, 800 x 600 pixel SVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports (2) SD memory cards. Includes HDMI video out. Compatible with EA9-PGMSW programming software version 5.0 or later.	82 MB	2 slot	Yes	Yes	Yes
EA9-T15CL	***C-more*** EA9 series touch screen interface panel, 15-inch color TFT (15 inch viewable screen), 64k colors, 1024 x 768 pixel XGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB #2.0 Type A and B ports and Ethernet port; supports (2) SD memory cards. Includes HDMI video out. Compatible with EA9-PGMSW programming software version 5.0 or later.	82 MB	2 slot	Yes	Yes	Yes

Model Specifications

The following specification tables are separated into these groups:

- Specifications common to all models
- 6” Reduced and Full Feature Models, EA9-T6CL-R, and EA9-T6CL
- 8” & 10” Full Feature Models, EA9-T8CL and EA9-T10CL
- 12” & 15” Full Feature Models, EA9-T12CL & EA9-T15CL

Specification tables begin on the next page.

Specifications common to all models

Model / Specification	All Models
Operating Temperature	0 to 50 °C (32 to 122 °F); Maximum surrounding air temperature rating: 50 °C (122 °F) IEC 60068-2-14 (Test Nb, Thermal Shock)
Storage Temperature	–20 to +60 °C (–4 to +140 °F) IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)
Humidity	5–95% RH (non-condensing)
Environment	For use in Pollution Degree 2 environment, no corrosive gases permitted
Noise Immunity	NEMA ICS3-304 (EN61131-2) RFI, (145MHz, 440Mhz 10W @ 10cm) Impulse 1000V @ 1mS pulse EN61000-4-2 (ESD), EN61000-4-3 (RFI) EN61000-4-4 (FTB) EN61000-4-5 (Serge) EN61000-4-6 (Conducted) EN61000-4-8 (Power frequency magnetic field immunity)
Withstand Voltage	1000 VAC, 1 min. (FG to Power supply)
Insulation Resistance	> 10M ohm @ 500V DC (FG to Power supply)
Vibration	IEC60068-2-6 (Test Fc)
Shock	IEC60068-2-27 (Test Ea)
Emission	EN55011 Class A (Radiated RF emission)
Enclosure	NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 indoor use only (When mounted correctly)
Agency Approvals	UL508 (E157382), CE (EN61131-2), CUL Canadian C22.2, RoHS (2011/65/EU)
Backlight Average Lifetime*	50,000 hours @ 25 °C
Touch Panel Type**	Four-wire analog resistive
Supply Power	10.2-26.4 VDC Class 2, or use the AC/DC Power Adapter, EA-AC, to power the touch panel from a 100-240 VAC, 50/60 Hz power source. Reverse Polarity Protected

** **NOTE:** The backlight average lifetime is defined as the average usage time it takes before the brightness becomes 50% of the initial brightness. The lifetime of the backlight depends on the ambient temperature. The lifetime will decrease under low or high temperature usage.*

*** **NOTE:** The Touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.*

6-inch Models

Specification \ Model	6" TFT color w/ base features	6" TFT color w/ full features
Part Number	EA9-T6CL-R	EA9-T6CL
Display Actual Size and Type	5.7" TFT color	
Display Viewing Area	4.54" x 3.40" [115.2 mm x 86.4 mm]	
Weight	1.56 lb (710g)	1.59 lb (720g)
Screen Pixels	3200 x 240 (QVGA)	
Display Brightness	280 nits (typ)	
LCD Panel Dot Pitch	0.18 mm x 0.18 mm	
Color Scale	65,536	
Project Memory	26 MB	
Number of Screens	Up to 999 screens – limited by project memory	
Realtime Clock	Realtime Clock Built into panel, backed up for 30 days at 25°C	
Calendar - Month / Day / Year	Yes - monthly deviation 60 sec (Reference)	
Serial Port 1	15-pin D-sub female - RS2342C, RS-422/485	
Serial Port 2	N/A	3-wire terminal block - RS-485
Serial Port 3	N/A	RJ-12 modular jack - RS-232C
USB Port - Type B	USB 2.0 High speed (480 Mbps) Type B - Download/Program	
USB Port - Type A	USB 2.0 High speed (480 Mbps) Type A -for USB device options	
Ethernet Port	N/A	Ethernet Port Ethernet 10/100 Base-T, auto MDI/MDI-X
Audio Line Out	N/A	3.5 mm mini jack – requires amplifier and speaker(s)
Mic In	N/A	3.5 mm mini jack
SD Card Slot	1 slot. Supports max 2 GB (SD,) max 32 GB (SDHC)	
HDMI Video Out	N/A	
Power Consumption	16.0W 1.30A @ 12 VDC 0.66A @ 24 VDC	
Internal Fuse (non-replaceable)	4A	

8-inch and 10-inch Models

Specification \ Model	8" TFT color w/ full features	10" TFT color w/ full features
Part Number	EA9-T8CL	EA9-T10CL
Display Actual Size and Type	8.4" TFT color	10.4" TFT color
Display Viewing Area	6.71" x 5.03" [170.4 mm x127.8mm]	8.31" x 6.24" [211.2 mm x 158.4 mm]
Weight	2.93 lb (1330g)	4.19 lb (1900g)
Screen Pixels	800 x 600 (SVGA)	
Display Brightness	310 nits (typ)	280 nits (typ)
LCD Panel Dot Pitch	0.213 mm x 0.213 mm	0.264 mm x 0.264 mm
Color Scale	65,536 colors	
Project Memory	26 MB	
Number of Screens	Up to 999 screens – limited by project memory	
Realtime Clock	Realtime Clock Built into panel, backed up for 30 days at 25°C	
Calendar - Month / Day / Year	Yes - monthly deviation 60 sec (Reference)	
Serial Port 1	15-pin D-sub female - RS2342C, RS-422/485	
Serial Port 2	3-wire terminal block - RS-485	
Serial Port 3	RJ-12 modular jack - RS-232C	
USB Port - Type B	USB 2.0 High speed (480 Mbps) Type B - Download/Program	
USB Port - Type A	USB 2.0 High speed (480 Mbps) Type A -for USB device options	
Ethernet Port	Ethernet Port Ethernet 10/100 Base-T, auto MDI/MDI-X	
Audio Line Out	3.5 mm mini jack – requires amplifier and speaker(s)	
Mic In	3.5 mm mini jack	
SD Card Slot	1 slot. Supports max 2 GB (SD,) max 32 GB (SDHC)	
HDMI Video Out	N/A	
Power Consumption	18.0W 1.50A @ 12 VDC 0.75A @ 24 VDC	
Internal Fuse (non-replaceable)	6.3A	

12-inch and 15-inch Models

Specification \ Model	12" TFT color w/ full features	15" TFT color w/ full features
Part Number	EA9-T12CL	EA9-T15CL
Display Actual Size and Type	12.1" TFT color	15.0" TFT color
Display Viewing Area	9.69" x 7.26" [246.0 mm x 184.5 mm]	11.97" x 8.98" [304.1 mm x 228.0 mm]
Weight	4.85 lb (2200g)	6.50 lb (2950g)
Screen Pixels	800 x 600 (SVGA)	1024 x 768 (XGA)
Display Brightness	280 nits (typ)	
LCD Panel Dot Pitch	0.3075 mm x 0.3075 mm	0.297 mm x 0.297 mm
Color Scale	65,536 colors	
Project Memory	82 MB	
Number of Screens	Up to 999 screens – limited by project memory	
Realtime Clock	Realtime Clock Built into panel, backed up for 30 days at 25°C	
Calendar - Month / Day / Year	Yes - monthly deviation 60 sec (Reference)	
Serial PLC Interface Port 1	15-pin D-sub female - RS2342C, RS-422/485	
Serial PLC Interface Port 2	3-wire terminal block - RS-485	
Serial PLC Interface Port 3	RJ-12 modular jack - RS-232C	
USB Port - Type B	USB 2.0 High speed (480 Mbps) Type B - Download/Program	
USB Port - Type A	USB 2.0 High speed (480 Mbps) Type A -for USB device options	
Ethernet Port	Ethernet Port Ethernet 10/100 Base-T, auto MDI/MDI-X	
Audio Line Out	3.5 mm mini jack – requires amplifier and speaker(s)	
Mic In	3.5 mm mini jack	
SD Card Slot	2 slots. Supports max 2 GB (SD), max 32 GB (SDHC)	
HDMI Video Out	HDMI Type A Port	
HDMI Supported Resolution	800 x 600 (SVGA)	1024 x 768 (XGA)
Power Consumption	21.0W 1.75A @ 12 VDC 0.88A @ 24 VDC	29.0W 2.40A @ 12 VDC 1.20A @ 24 VDC
Internal Fuse (non-replaceable)	6.3A	

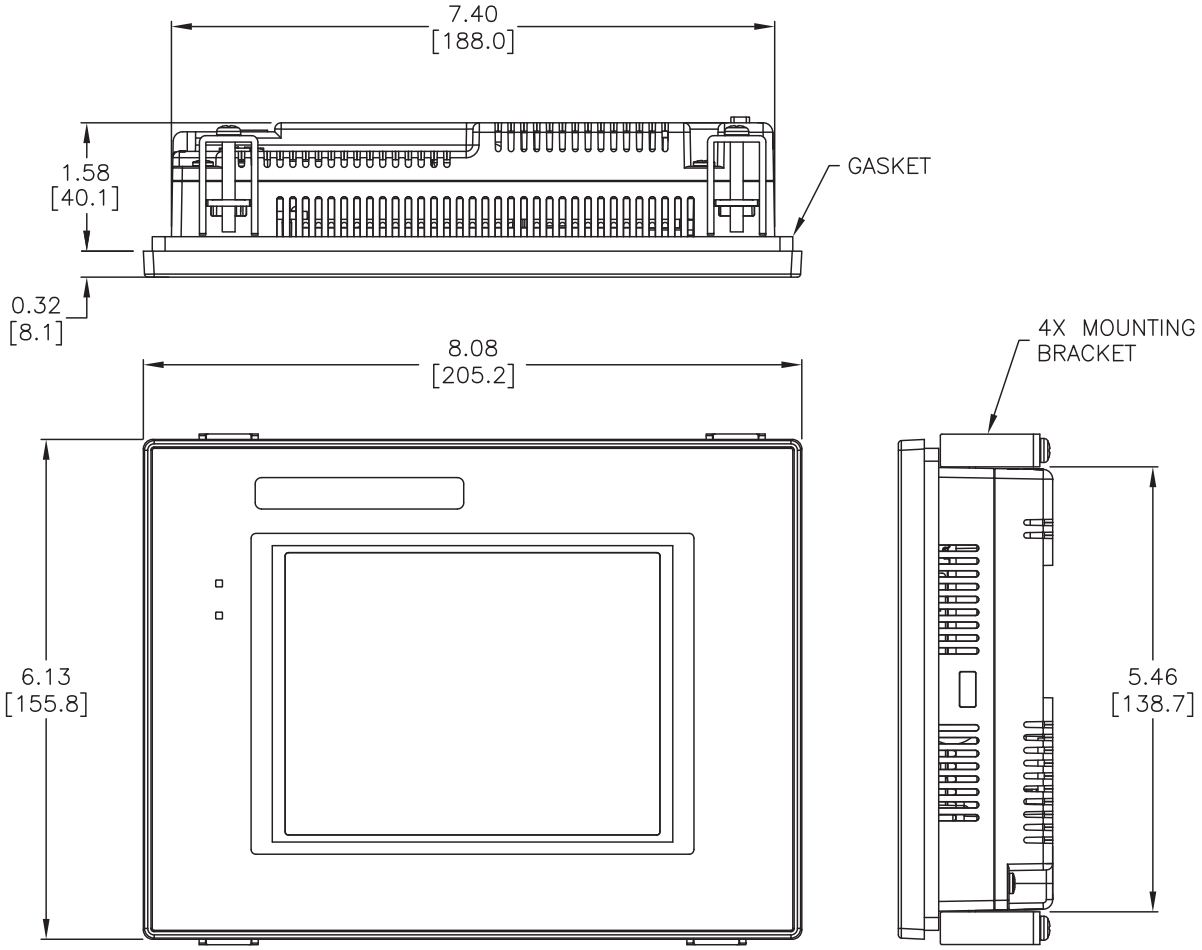
EA9-T6CL-R, EA9-T6CL

Dimensions, Inches [mm]

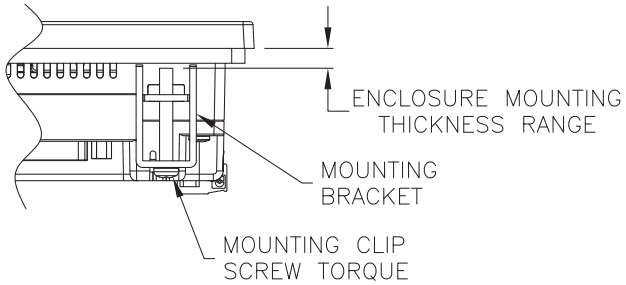
2

All the necessary mounting hardware is provided with the touch panel. Use the four mounting clips and screws to secure the touch panel to the cabinet or enclosure surface.

A template for marking the cutout dimensions on the mounting surface is provided in the box.



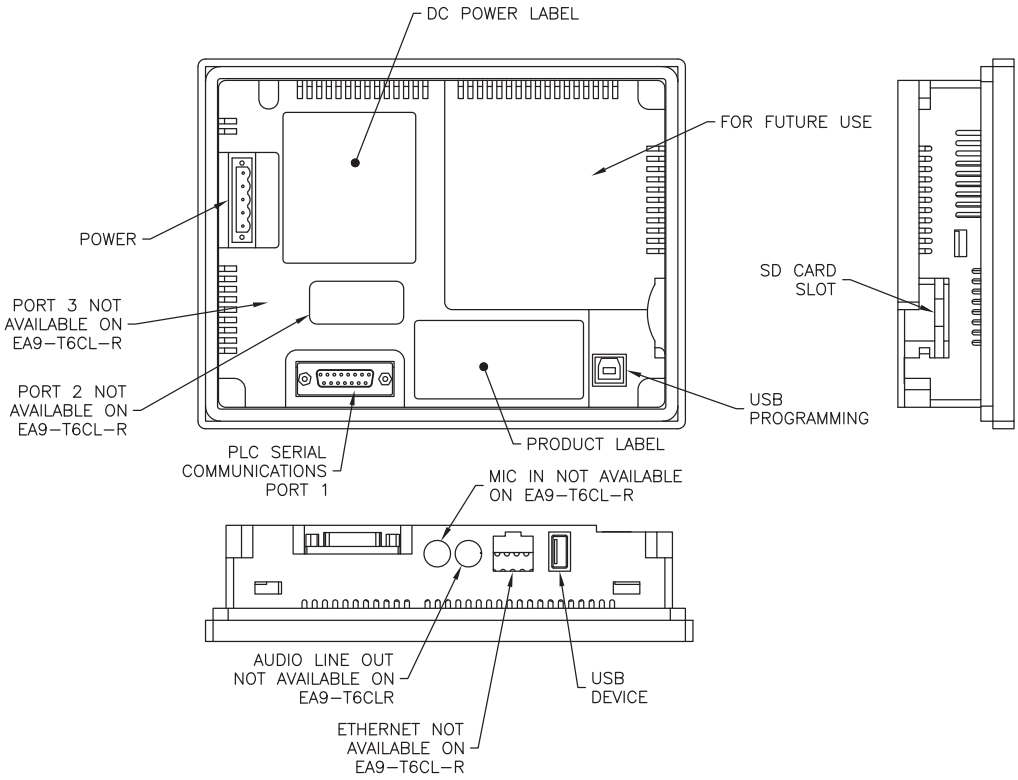
Enclosure Mounting Thickness Ranges and Mounting Clip Screw Torque



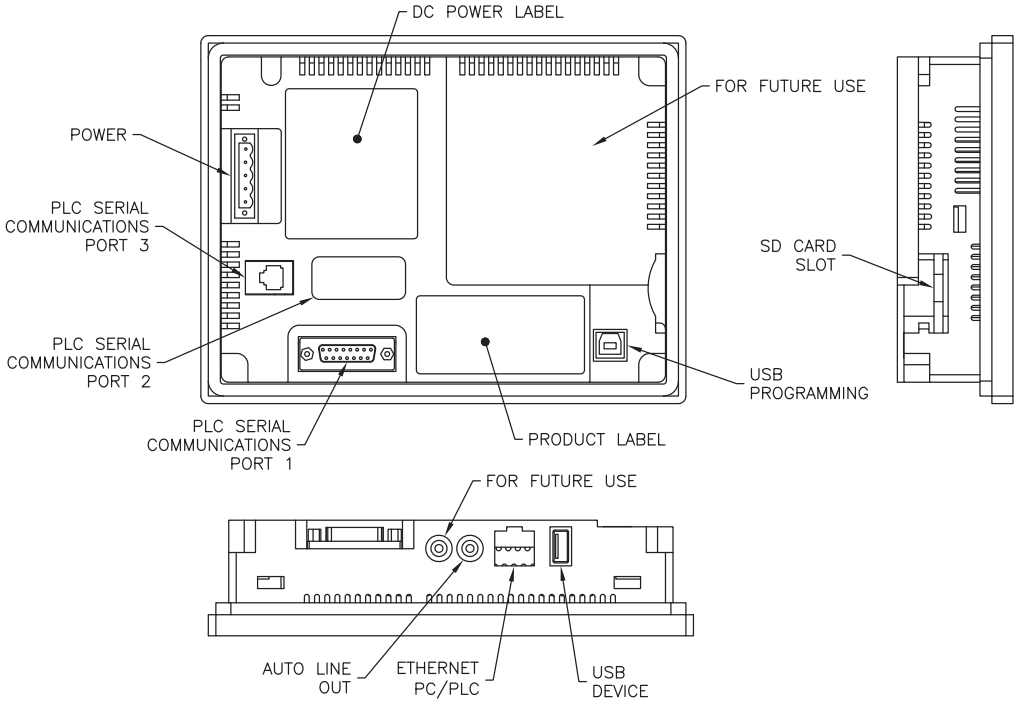
Touch Panel Size	Enclosure Thickness Range	Mounting Clip Screw Torque
6", 8", 10" and 12"	0.039 - 0.20 inch [1 – 5 mm]	63 - 77 oz-in [0.45 - 0.55 Nm]

Ports and Memory Expansion

EA9-T6CL-R



EA9-T6CL



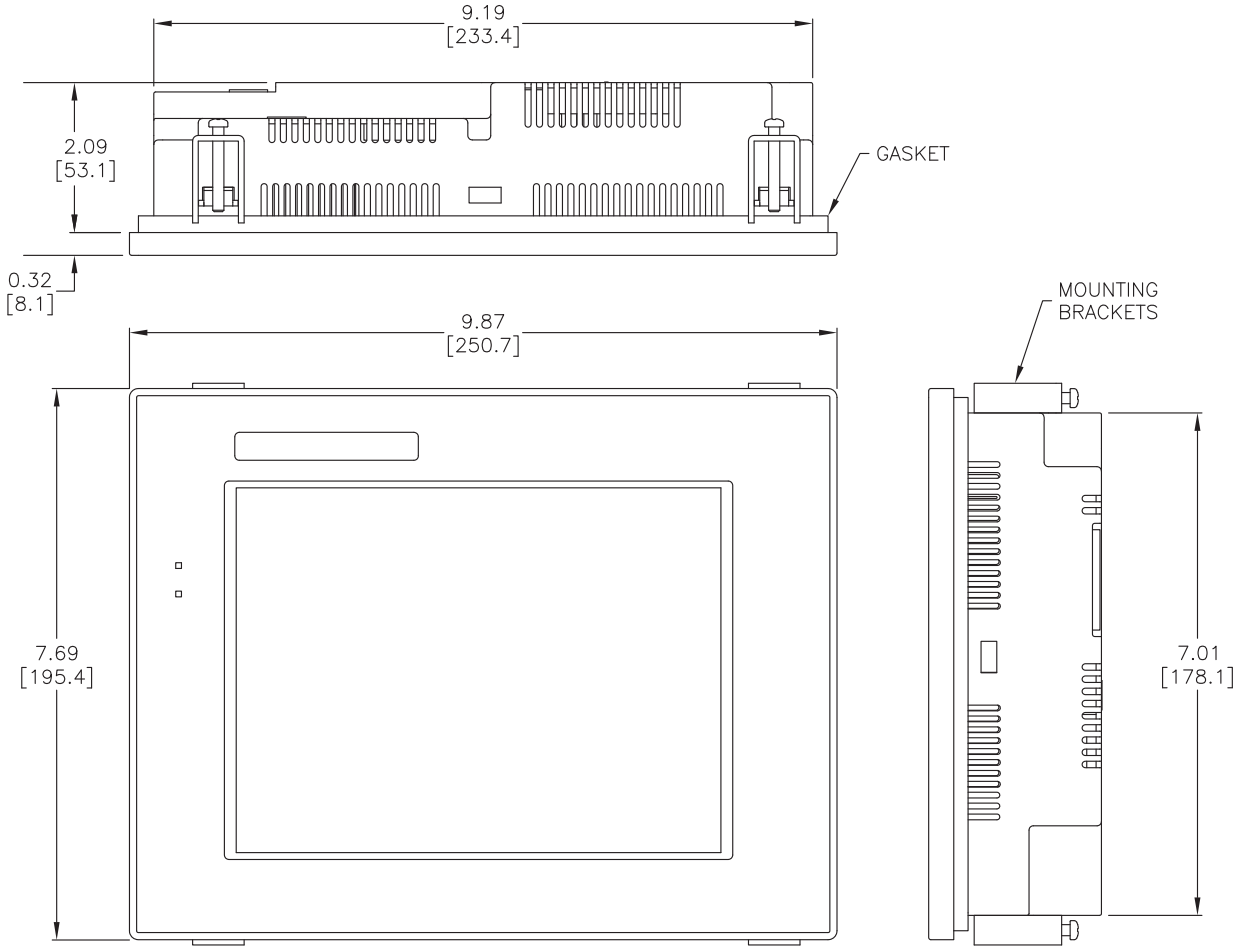
EA9-T8CL

Dimensions, Inches [mm]

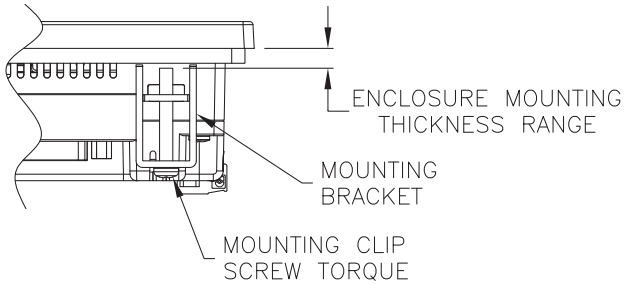
2

All the necessary mounting hardware is provided with the touch panel. Use the four mounting clips and screws to secure the touch panel to the cabinet or enclosure surface.

A template for marking the cutout dimensions on the mounting surface is provided in the box.



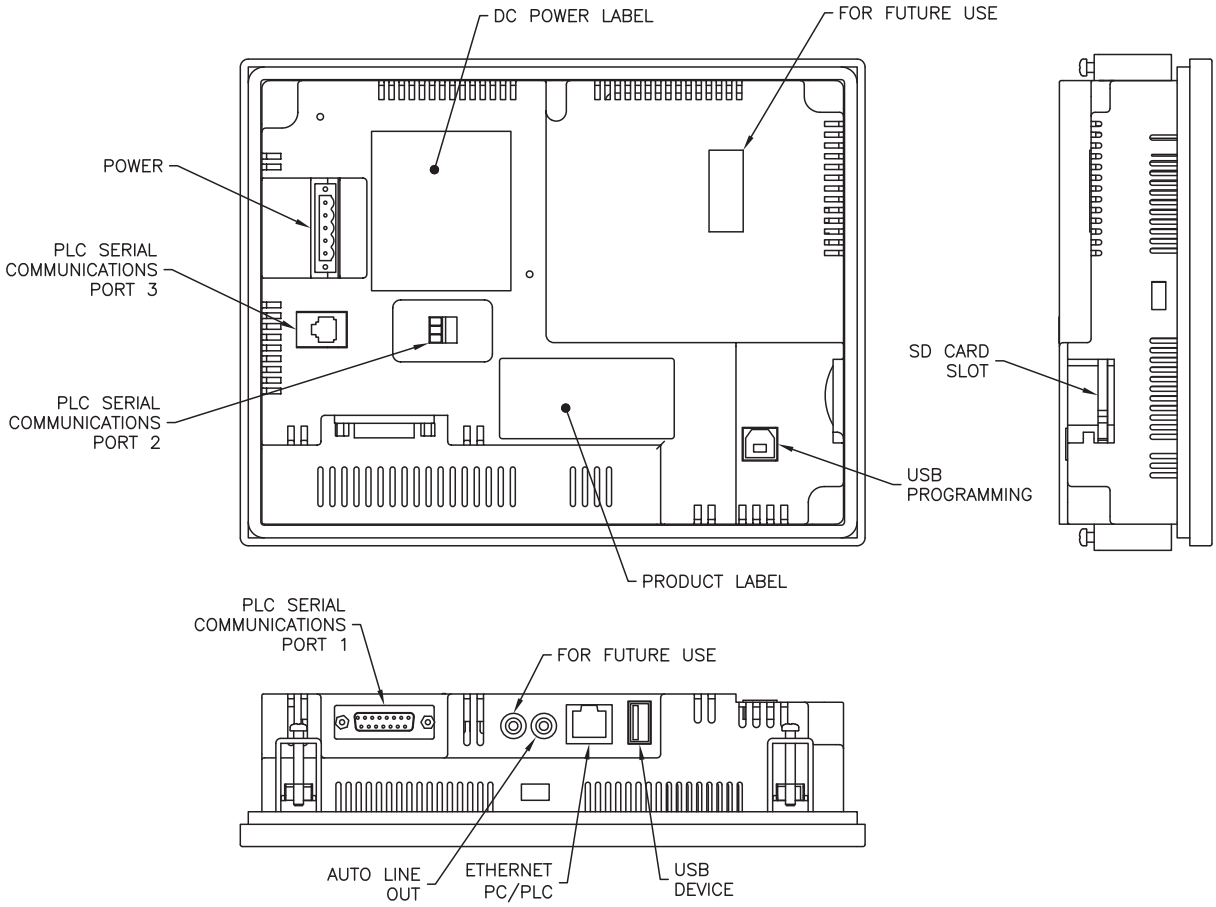
Enclosure Mounting Thickness Ranges and Mounting Clip Screw Torque



Touch Panel Size	Enclosure Thickness Range	Mounting Clip Screw Torque
6", 8", 10" and 12"	0.039 - 0.20 inch [1 – 5 mm]	63 - 77 oz-in [0.45 - 0.55 Nm]

Ports and Memory Expansion

EA9-T8CL



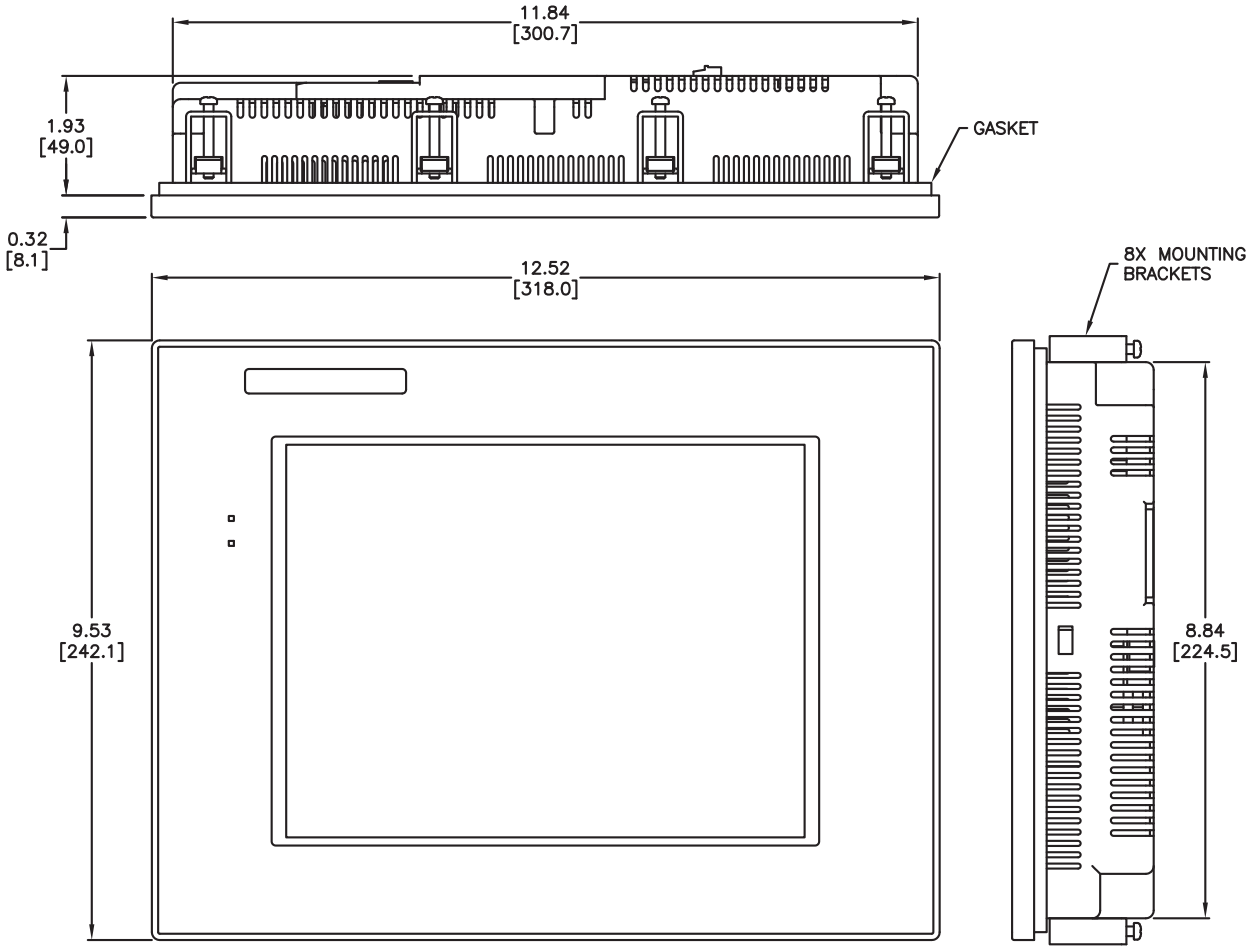
EA9-T10CL

Dimensions, Inches [mm]

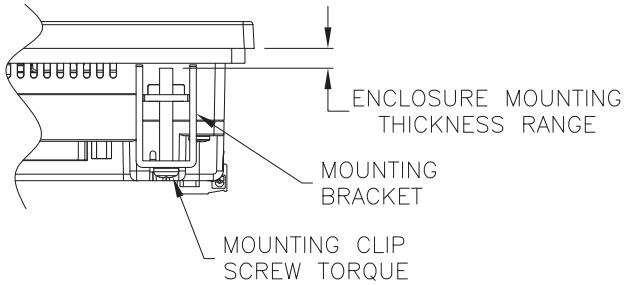
2

All the necessary mounting hardware is provided with the touch panel. Use the eight mounting clips and screws to secure the touch panel to the cabinet or enclosure surface.

A template for marking the cutout dimensions on the mounting surface is provided in the box.



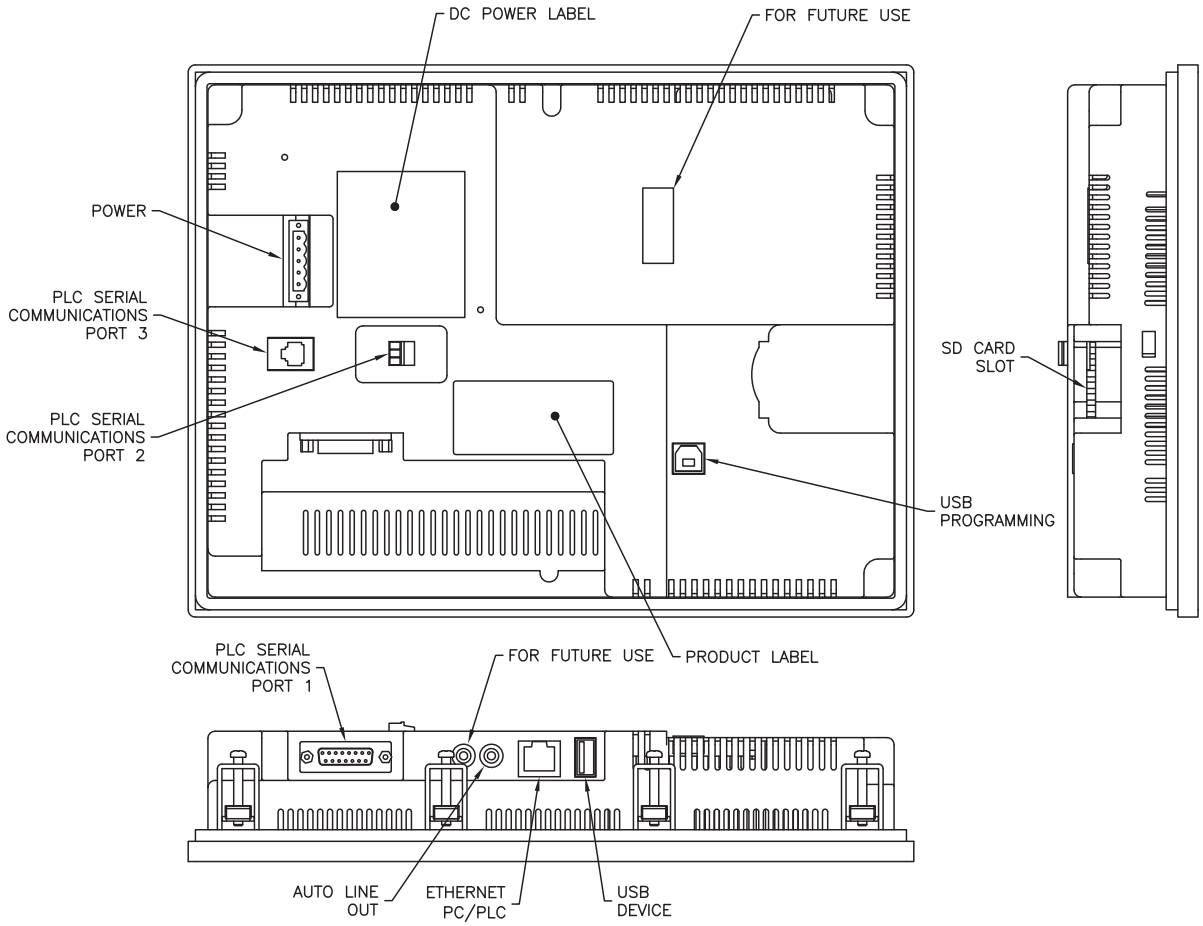
Enclosure Mounting Thickness Ranges and Mounting Clip Screw Torque



Touch Panel Size	Enclosure Thickness Range	Mounting Clip Screw Torque
6", 8", 10" and 12"	0.039 - 0.20 inch [1 – 5 mm]	63 - 77 oz-in [0.45 - 0.55 Nm]

Ports and Memory Expansion

EA9-T10CL



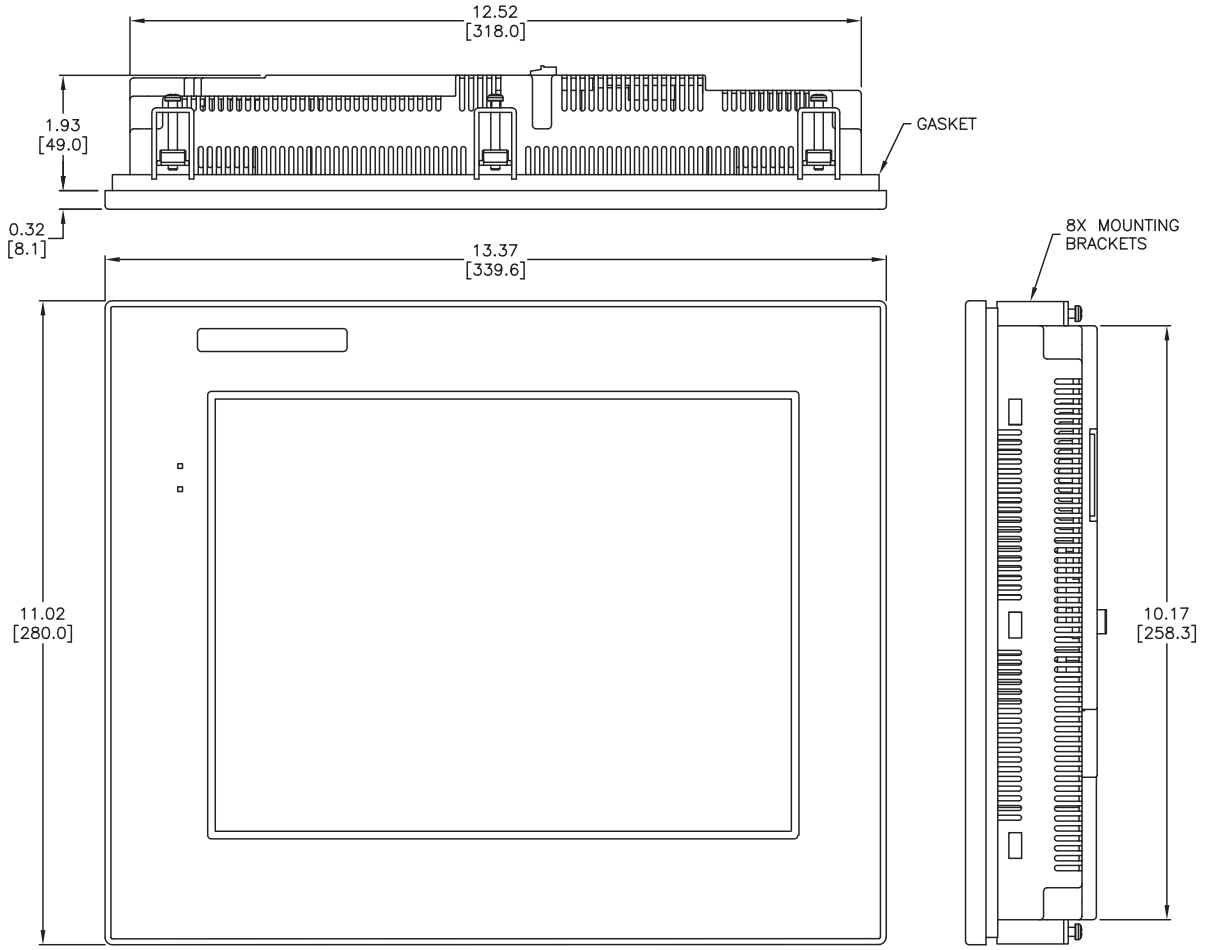
EA9-T12CL

Dimensions, Inches [mm]

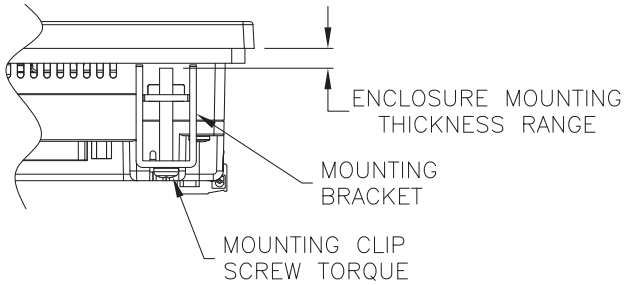
2

All the necessary mounting hardware is provided with the touch panel. Use the eight mounting clips and screws to secure the touch panel to the cabinet or enclosure surface.

A template for marking the cutout dimensions on the mounting surface is provided in the box.



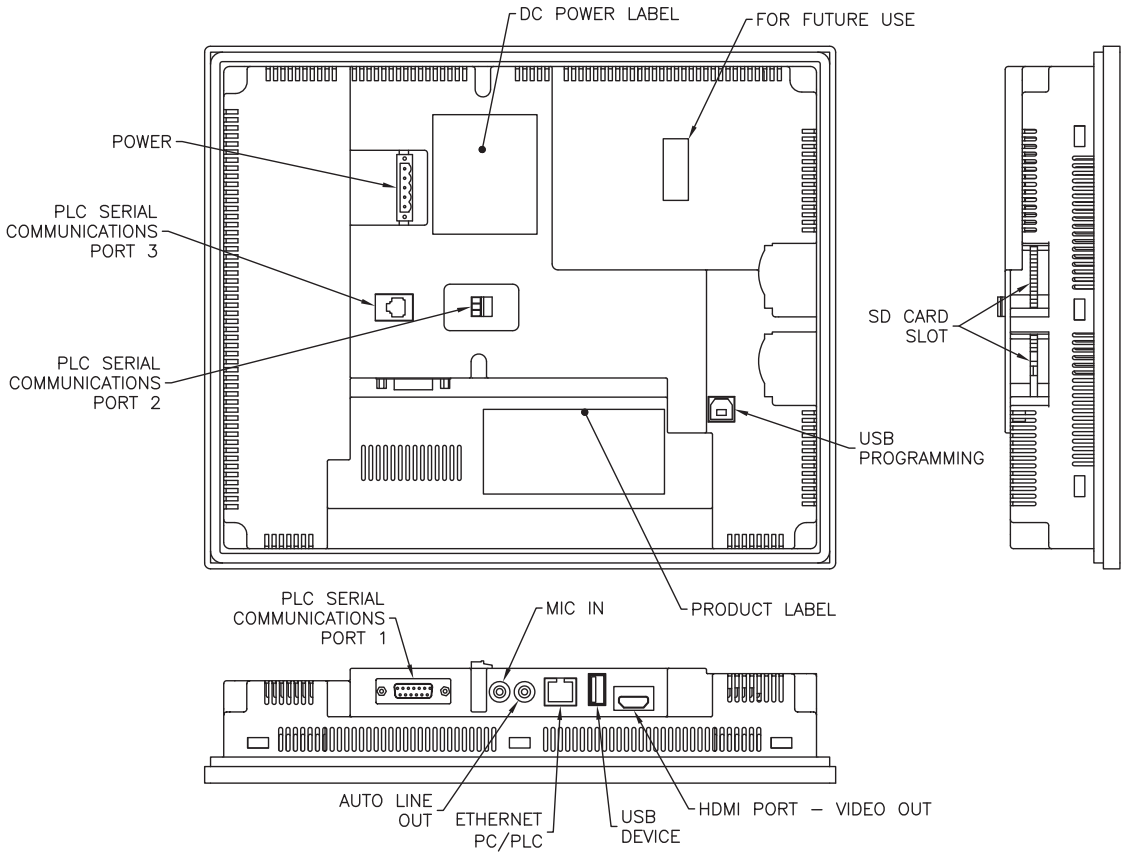
Enclosure Mounting Thickness Ranges and Mounting Clip Screw Torque



Touch Panel Size	Enclosure Thickness Range	Mounting Clip Screw Torque
6", 8", 10" and 12"	0.039 - 0.20 inch [1 – 5 mm]	63 - 77 oz-in [0.45 - 0.55 Nm]

Ports and Memory Expansion

EA9-T12CL



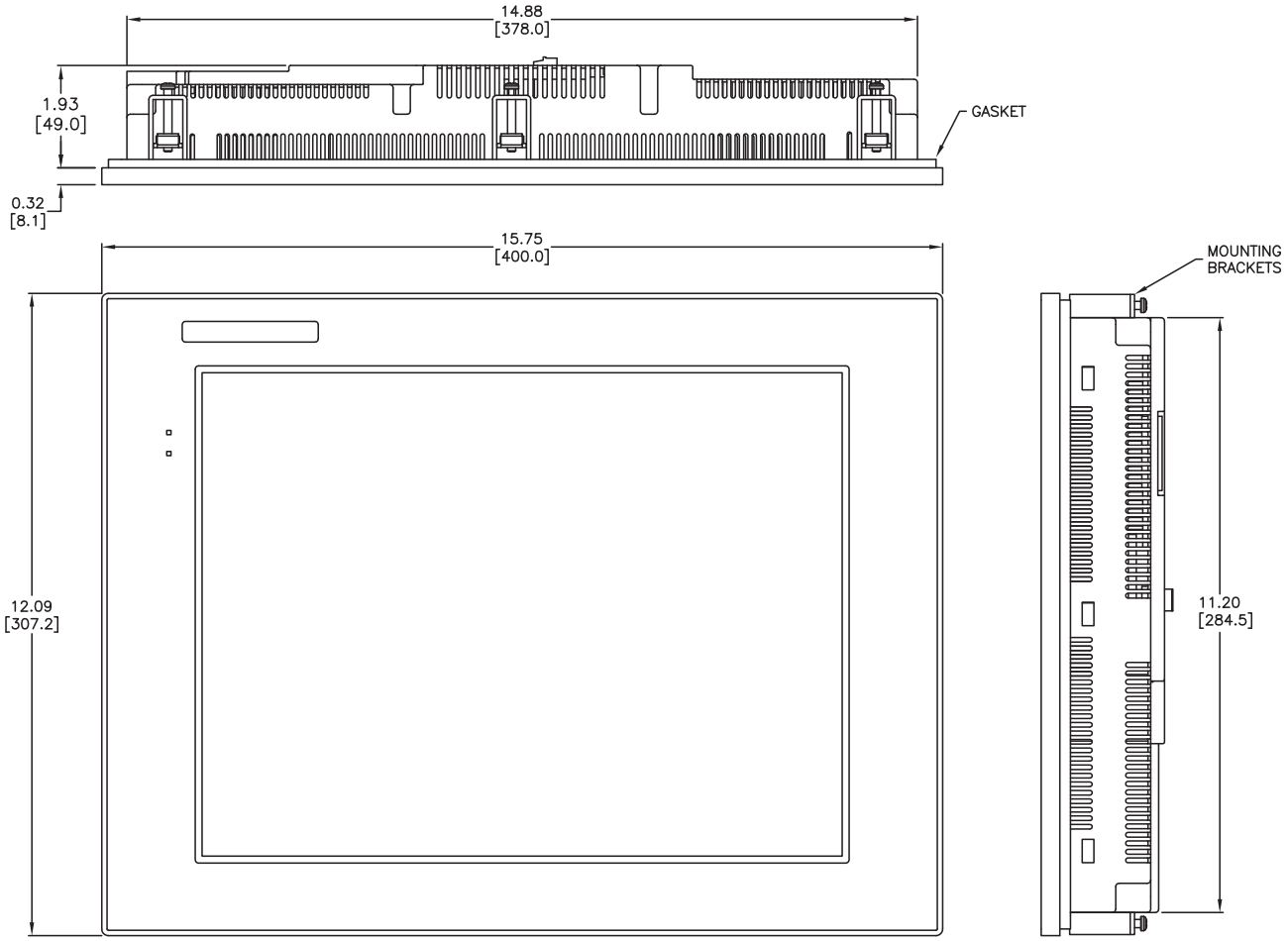
EA9-T15CL

Dimensions, Inches [mm]

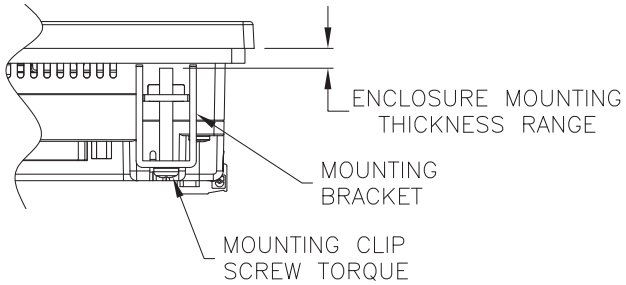
2

All the necessary mounting hardware is provided with the touch panel. Use the eight mounting clips and screws to secure the touch panel to the cabinet or enclosure surface.

A template is provided for marking the cutout dimensions on the mounting surface.



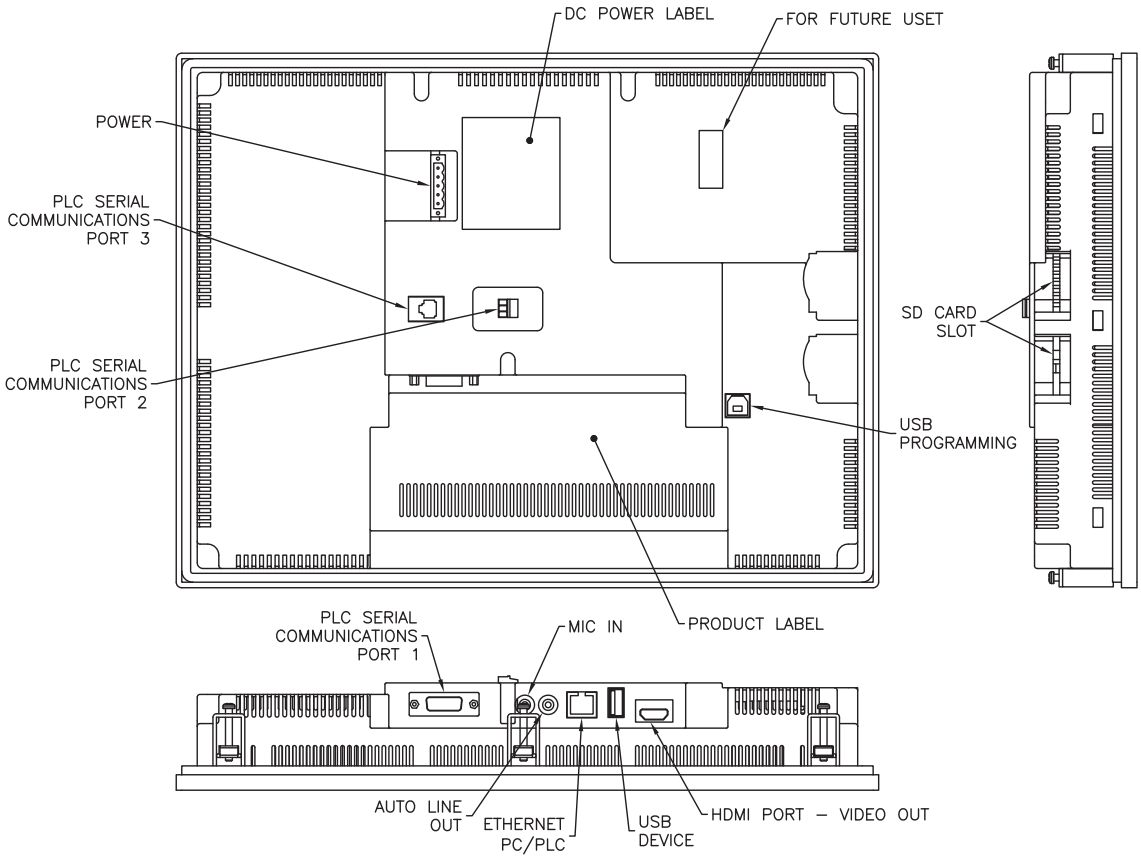
Enclosure Mounting Thickness Ranges and Mounting Clip Screw Torque



Touch Panel Size	Enclosure Thickness Range	Mounting Clip Screw Torque
15”	0.039 - 0.20 inch [1 – 5 mm]	92 - 106 oz-in [0.65 - 0.75 Nm]

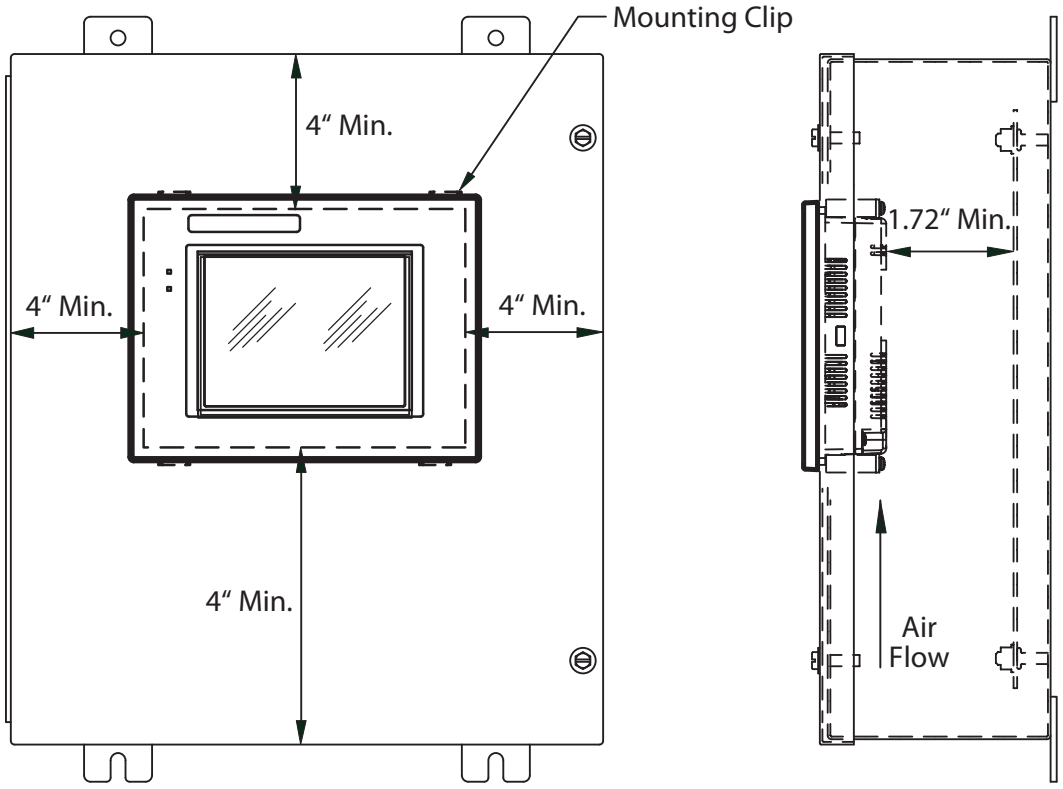
Ports and Memory Expansion

EA9-T15CL



Mounting Clearances

The following drawing shows the mounting clearances for the ***C-more*** touch panel. There should be a minimum of 4 inches of space between all sides of the panel and the nearest object or obstruction and at least 1.72 inches between the rear of the panel and the nearest object or obstruction.



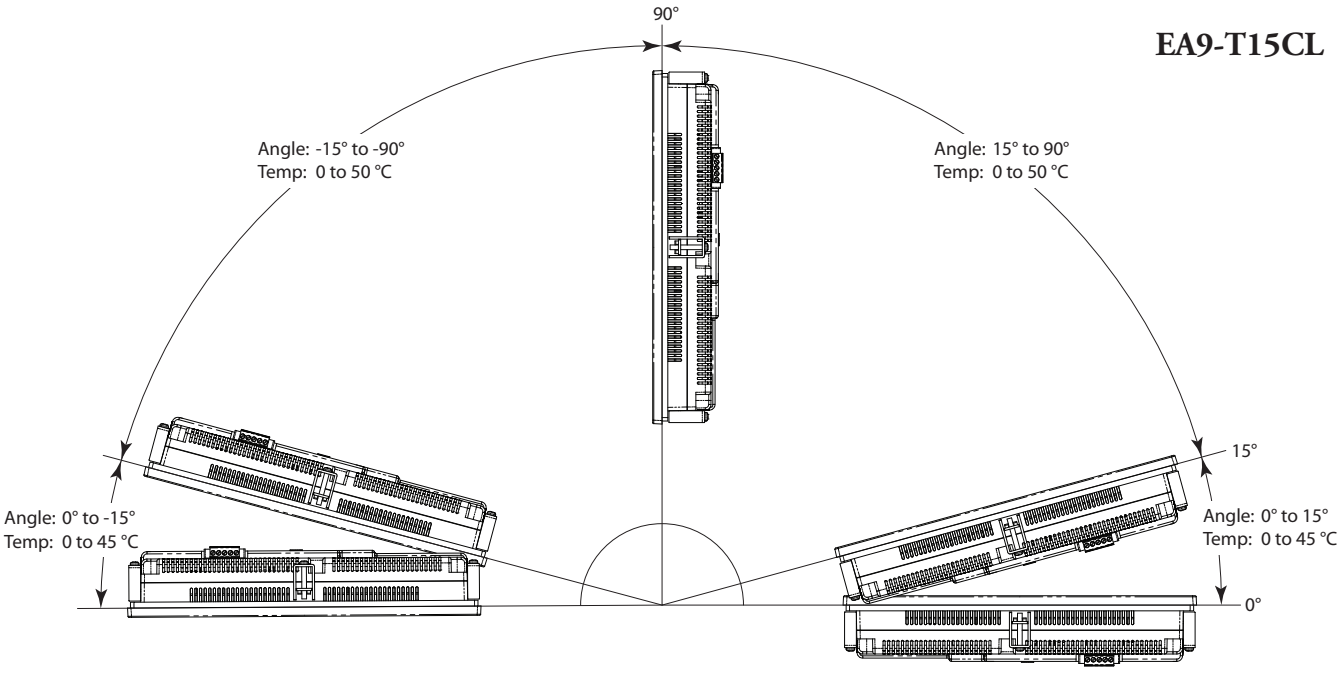
Front View

Side View

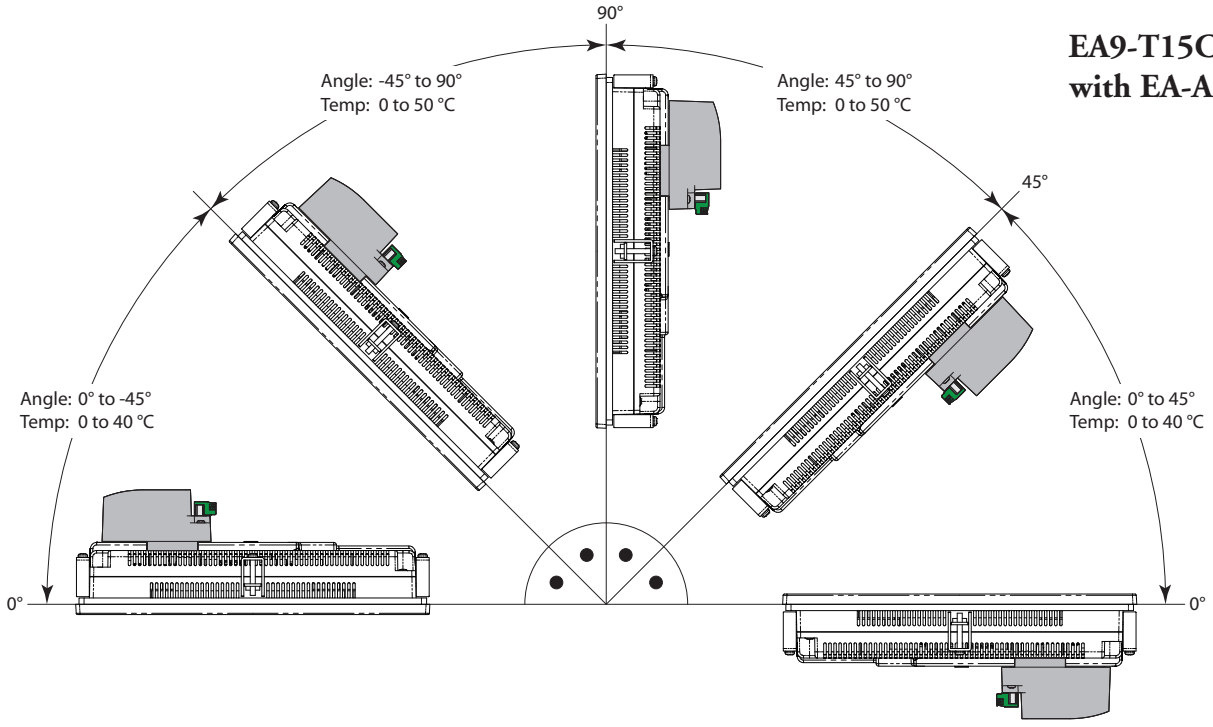
EA9-T15CL Derating

If EA9-T15CL is mounted off the vertical plane facing upward, the temperature shall be derated as shown below. Other panels may be mounted at any angle without derating consideration.

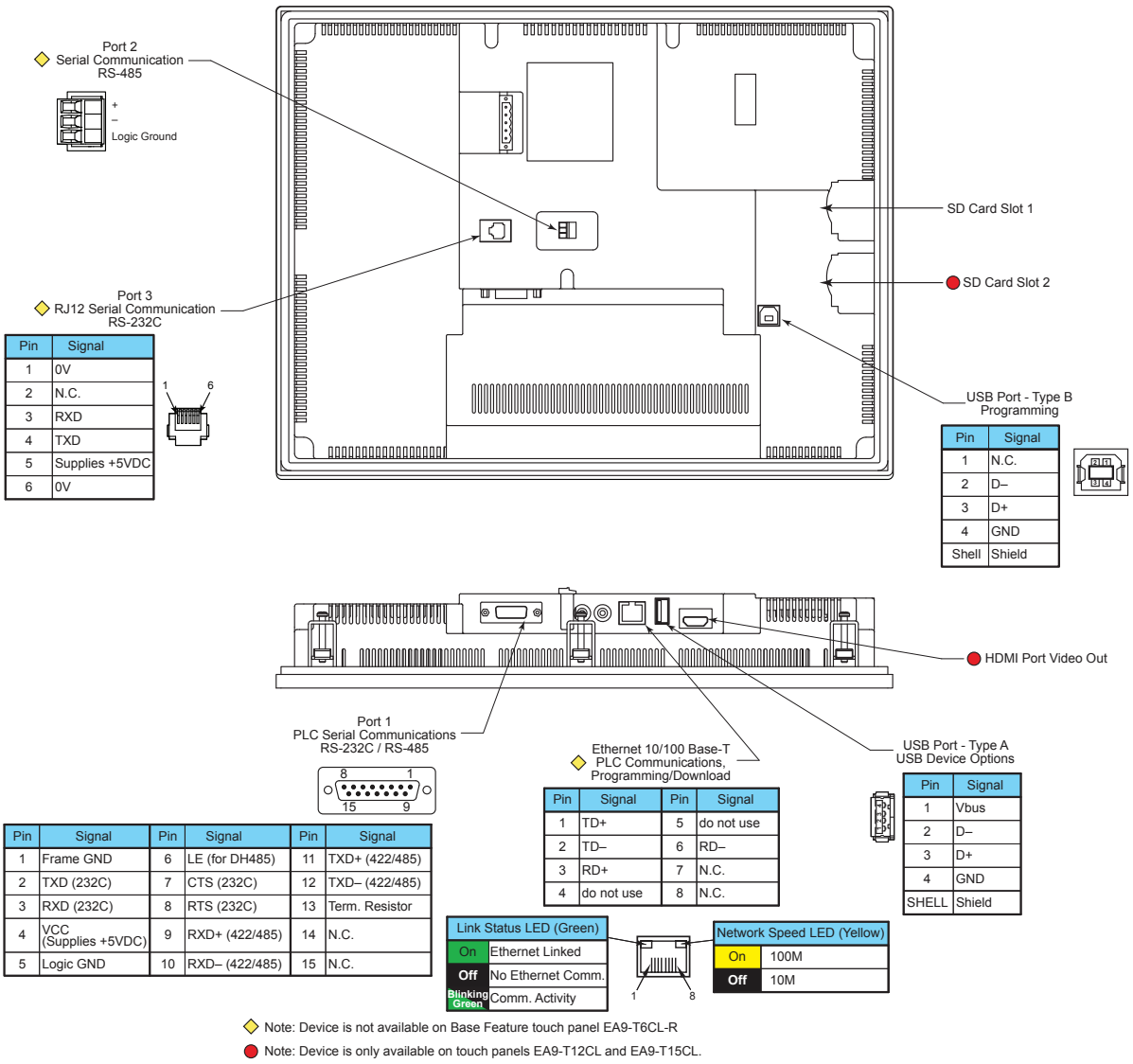
EA9-T15CL



EA9-T15CL with EA-AC



Communications Ports



Pin	Signal
1	0V
2	N.C.
3	RXD
4	TXD
5	Supplies +5VDC
6	0V

Pin	Signal
1	N.C.
2	D–
3	D+
4	GND
Shell	Shield

Pin	Signal	Pin	Signal	Pin	Signal
1	Frame GND	6	LE (for DH485)	11	TXD+ (422/485)
2	TXD (232C)	7	CTS (232C)	12	TXD– (422/485)
3	RXD (232C)	8	RTS (232C)	13	Term. Resistor
4	VCC (Supplies +5VDC)	9	RXD+ (422/485)	14	N.C.
5	Logic GND	10	RXD– (422/485)	15	N.C.

Pin	Signal	Pin	Signal
1	TD+	5	do not use
2	TD–	6	RD–
3	RD+	7	N.C.
4	do not use	8	N.C.

Pin	Signal
1	Vbus
2	D–
3	D+
4	GND
SHELL	Shield

Ethernet Port

The Ethernet port can be used several ways: for programming the panel (downloading a project), for PLC communication, and for the advanced features, such as sending e-mail, web server, FTP access, and allowing users to access and control the panel remotely.

The Ethernet connector is an RJ-45 Module jack.

NOTE: *EA9-T6CL-R does not include an Ethernet port and does not have these capabilities.*

Refer to http://c-more.automationdirect.com for the latest driver information.

Communications Ports (cont'd)

USB Type B Port

Program ***C-more*** via the USB programming port. It's fast and easy, with no baud rate settings, parity, or stop bits to worry about. We stock standard USB cables for your convenience, such as part no. USB-CBL-AB15. The USB type B port can be used to upload or download projects to and from a PC (personnel computer).

USB Type A Port

The USB type A port is a standard feature for all models and can be used to connect various USB 2.0 HID (Human Input Device) devices to the panel, such as:

- USB pen drives, (ADC p/n USB-FLASH)
- USB keyboards
- USB barcode scanners
- USB card scanners

C-more can log data to the USB pen drive as well as restore projects to the panel from the pen drive. You can also back up project files and panel firmware.

Sound Interface (Audio Line Out)

When attached to an amplifier and speaker(s), ***C-more*** can play warning sounds, or pre-recorded messages such as: "conveyor is jammed". Various "Objects" in the ***C-more*** programming software support sounds. ***C-more*** supports WAV type files. Sound files are stored in the sound library.

Audio WAV File Specifications

The ***C-more*** Audio Line Out port supports the following WAV file specifications:

Audio Format (codec): PCM

Audio Sample Rate: 44.1 kHz

Channels: 2 (stereo)

Audio Sample Size: 16-bit

Serial Communication Ports

Port 1

Connect to your serial controller network via Port 1. Port 1 is a 15-pin port that supports RS-232 and RS-422/485.

Port 2

Connect your RS-485 network via Port 2. Port 2 is provided with a 3-wire removable terminal block.

Port 3

Connect to your RS-232C device via Port 3. Port 3 is an RJ12 connection

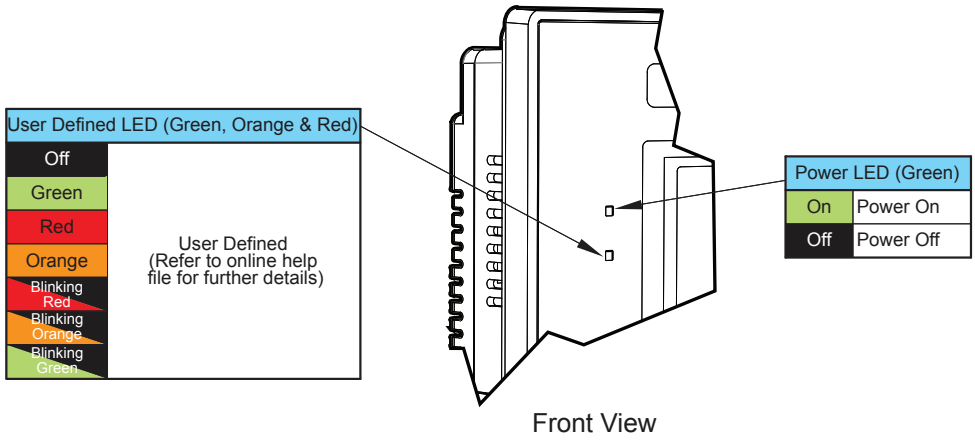
NOTE: *EA9-T6CL-R does not include Serial Ports 2 and 3.*

HDMI Port Video Out

EA9-T12CL and EA9-T15CL include an HDMI Type A port to provide video output to a projector or remote monitor.

User Defined LED

The user defined LED on the panel front bezel can be controlled from the project to illuminate red, green or orange. It can also be configured to blink these colors. Refer to the online help file provided with the programming software for details.



Front View

Handling External Memory Devices

Consider the following to minimize the risk of data error when utilizing data logging.

- Do not turn off power to the ***C-more*** touch panel at any time the external memory device is being accessed.
- Do not remove any external memory device when the device is being accessed by the touch panel.

NOTE: *A system tag, such as* ***SYS %device% WriteStatus*** *can be used to detect when the external memory device is being accessed. See the* ***C-more*** *programming software on-line help for additional information on* ***System Tag Names****.*

- If an SD memory card is plugged into the SD card slot while the panel is running, the project will continue to run from the project that is currently in the internal SDRAM. If power is cycled and there is a good project stored on the SD memory card, then that project will overwrite the internal SDRAM and run.
- Be sure to backup the memory device at regular intervals.
- An SD memory card plugged into the SD card slot that includes a project that is being run cannot be used for backup.
- If you suspect the memory device is bad, you may want to use a PC to re-format the device, or use a known good memory device.

NOTE: *The* ***C-more*** *touch panel requires that all external memory devices be formatted with a* ***FAT*** *or* ***FAT32*** *file system.*

NOTE: *SD cards must be formatted using the SD formatter provided by the SD Association at* ***sdcard.org.*** *SD cards up to 2GB capacity must be formatted* ***FAT****. SDHC cards up to 32 GB must be formatted* ***FAT32****. USB memory must be formatted* ***FAT*** *or* ***FAT32****.*

- The number of times the memory device can be written to is limited, approximately 300,000 times. Consequently, frequent writing at short intervals may shorten the service life of the memory device. Try to use as long as possible sampling times for logging data to reduce the amount of times the memory device is accessed.
- USB mouse (on-screen mouse pointer is enabled via System Screen setup or Panel Manager)

Different types of numeric and text data from the ***C-more*** touch panel can be stored on an SD card or a USB memory device. Numeric data from Line Trend Graph and PID Faceplate Trend Graph objects may be stored. Text data from Lookup Text and Multi-state Text objects can also be stored. Up to 16 objects may be configured in the ***C-more*** programming software to log data. Along with the 16 object limit, available storage on the external memory device is subject to the memory capacity of the SD card or USB memory device. One log file is created in a 24 hour period for each object. Additionally log file data is written to the external memory device:

- when 2kB of data is cached,
- when 20 records have been stored,
- periodically, once every 1 minute,
- when one of the internal "copy logTo" or "Eject" tags is activated via an object or event,
- when there is an email or FTP action
- when the System Screen is called
- when the panel date is changed

File Name Limitations

There is a limit of 999 file names with the same first four characters. Internal file names are restricted by the DOS 8-character-dot-3-character limit. Therefore trend log files are identified internally by the first four characters of the object name plus tilde plus a three digit number. Examples are:

TREND GRAPH EAST CHILLER TEMP_130925.txt *saved internally as* TREN~001.txt
TREND GRAPH WEST CHILLER TEMP_130925.txt *saved internally as* TREN~002.txt

As new log files are created in each 24 hour period, these files count against the maximum of 999 files. If multiple graph objects appear on one screen, the files will be identified internally by the first Two Characters of the screen name plus the first Two Characters of the object name plus tilde plus three digit number. To maximize storage capabilities on external memory devices use screen names that have unique characters in the first four digits and object names that are unique in the first two characters.

NOTE: *When the 999 filename limit is reached, the oldest files will automatically be deleted and logging will continue.*

Monitoring Available Memory

External memory device memory can be monitored and events can be configured to alert the user when available memory is approaching the maximum capacity of the external memory device. The following internal tags allow external memory device data to be available:

- SYS SD1 TOTALMEMORY
- SYS SD1 FREEMEMORY
- SYS SD1 USEDMEMORY
- SYS SD2 TOTALMEMORY
- SYS SD2 FREEMEMORY
- SYS SD2 USEDMEMORY
- SYS USB TOTALMEMORY
- SYS USB FREEMEMORY
- SYS USB USEDMEMORY

Refer to the ***C-more*** programming software online help files for additional information on system tags and managing data logging devices.

Minimizing Data Errors

To minimize data errors when logging data to external memory, consider the following:

- Do not turn off power to the ***C-more*** touch panel while the external memory device is being accessed. The optional EA-AC power adaptor is designed to protect external memory devices from damage during power failure.
- Do not remove any external memory device with the device is being accessed by the ***C-more*** panel. The following internal tags should be used to monitor, access and safely remove external memory devices:
  - SYS SD1 WriteStatus
  - SYS SD2 WriteStatus
  - SYS USB WriteStatus
  - SYS Copy LogToSD1
  - SYS Copy LogToSD2
  - SYS Copy LogToUSB
  - SYS SD1 Eject
  - SYS SD2 Eject
  - SYS USB Eject
  - SYS SD1 ReadyToUse
  - SYS SD2 ReadyToUse
  - SYS USB ReadyToUse

Refer to the ***C-more*** programming software online help files for additional information on system tags and managing data logging devices.

Chemical Compatibility

The ***C-more*** touch panels comprise three different materials that may be exposed to outside elements: a gasket, a screen sheet and a bezel.

- Gasket material is silicone.
- Screen sheets are PET.
- Panel bezels are ABS plastic.